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## **A new approach to verifying conceptual models**

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### **Abstract**

In this paper, we propose the use of task-based specifications in conceptual graphs (TBCG) to construct and verify a conceptual model. Task-based specification methodology serves as the mechanism to structure the knowledge captured in the conceptual model whereas conceptual graphs are adopted as the formalism to express task-based specifications. Verification of a conceptual model is performed on model specifications of a task through constraint satisfaction and relaxation techniques, and on process specifications of the task based on the resolution algorithm and the notion of specificity.